JCO2 Rec'd PCT/PTO 27 PAPER (R2005005)
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/FO/US)

ATTORNEY'S DOCKET NUMBER P7151

CONCERNING A SUBMISSION UNDER 35 U.S	LU.S. APPLICA INCIDENTAL TRACER MASSES 37 CFR 1.51						
INTERNATIONAL APPLICATION NO. INTERNATIONAL FI							
PCT/GB2003/003848 05 Septembe TITLE OF INVENTION	er 2003						
HEAT EXCHANGER AND/OR CHEMICAL REACTOR							
APPLICANT(S) FOR DO/EO/US							
Keith Thomas SYMONDS Applicant berewith submits to the United States Designated/Flected	1 Office (DO/FO/LIS) the following items and other information:						
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:							
1. Lxi This is a FIRST submission of items concerning a submission unc	XI This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.						
2. This is a SECOND or SUBSEQUENT submission of items concer	This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.						
3. This is an express request to begin national examination procedur (5), (6), (9) and (21) indicated below.							
4. X The US has been elected (Article 31).	The US has been elected (Article 31).						
5. X A copy of the International Application as filed (35 U.S.C. 371(c)	A copy of the International Application as filed (35 U.S.C. 371(c)(2))						
a. X is attached hereto (required only if not communicated	a. X is attached hereto (required only if not communicated by the International Bureau).						
b. has been communicated by the International Bureau.	b. has been communicated by the International Bureau.						
c. is not required, as the application was filed in the Unite	c. is not required, as the application was filed in the United States Receiving Office (RO/US).						
6. An English language translation of the International Application	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).						
a. is attached hereto.	a. is attached hereto.						
b. has been previously submitted under 35 U.S.C. 154(d	1)(4).						
7. Amendments to the claims of the International Application under	r PCT Article 19 (35 U.S.C. 371(c)(3))						
a. are attached hereto (required only if not communicate	a. are attached hereto (required only if not communicated by the International Bureau).						
b. have been communicated by the International Bureau	b. have been communicated by the International Bureau.						
c. have not been made; however, the time limit for mak	c. have not been made; however, the time limit for making such amendments has NOT expired.						
d. have not been made and will not be made.	d. have not been made and will not be made.						
8. An English language translation of the amendments to the claim	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).						
9. X An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).						
10. An English language translation of the annexes of the Internation Article 36 (35 U.S.C. 371(c)(5)).	An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).						
Items 11 to 20 below concern document(s) or information included	Items 11 to 20 below concern document(s) or information included:						
11. An Information Disclosure Statement under 37 CFR 1.97 and 1.	98.						
12. An assignment document for recording. A separate cover sheet	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.						
13. X A preliminary amendment.	A preliminary amendment.						
14. An Application Data Sheet under 37 CFR 1.76.	An Application Data Sheet under 37 CFR 1.76.						
15. A substitute specification.	A substitute specification.						
16. A power of attorney and/or change of address letter.	A power of attorney and/or change of address letter.						
17. A computer-readable form of the sequence listing in accordance	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.						
18. A second copy of the published International Application under	A second copy of the published International Application under 35 U.S.C. 154(d)(4).						
A second copy of the English language translation of the internal 1) PCT Request Form;	A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 1) PCT Request Form; 2) International Search Report and						

20. X Other items or information:

3) Petition for Revival

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Page 1 of 2

Page 1 of 2

JC14 Rec'd PCT/PTO 2 7 APR 2005

PTO-1390 (Rev. 02-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO.		ATTORNEY'S DOCKET NUMBER				
10	15328	886	PCT/GB2003/003	848	P7151	
	owing fees have l				CALCULATIONS	PTO USE ONLY
21. χ Basid	c national fee			\$300	\$ 300	
22. X Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)			\$ 200			
23. X Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority			\$ 400			
	TOTAL OF 21, 2				\$ 900	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.						
Total Sheets	Extra Sheets		h additional 50 or fraction up to a whole number)	RATE		
- 100 =	/50 =	:		x \$250	\$	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).				\$ 130		
CLAIMS	NUME	BER FILED	NUMBER EXTRA	RATE	\$	
Total claims		- 20 =		x \$50	\$ 450	
Independent clain	ns	- 3 =		× \$200	\$	
MULTIPLE DEPE		S) (if applicable)		+ \$360	\$	
	<u>`</u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TOTAL OF ABOVE	CALCULATIONS =	\$	
Applicant clai	ims small entity s	tatus. See 37 CF	R 1.27. Fees above are reduc	ced by 1/2.		
				SUBTOTAL =	\$ 1,480	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).			\$			
TOTAL NATIONAL FEE =			\$1,480.00			
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +			\$			
			TOTAL F	EES ENCLOSED =	\$1,480.00	
	Amount to be		\$			
· · · · · · · · · · · · · · · · · · ·					Amount to be charged:	\$
a. A check	in the amount of	f \$	to cover the abo	ove fees is enclosed.		
b. X Please charge my Deposit Account No. <u>18-2284</u> in the amount of \$1,480.00 to cover the above fees. A duplicate copy of this sheet is enclosed.						
c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 18-2284 A duplicate copy of this sheet is enclosed.						
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be Included on this form. Provide credit card information and authorization on PTO-2038.						
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed						
and granted to restore the International Application to pending status.						
SEND ALL CORRESPONDENCE TO: DLA PIPER RUDNICK GRAY CARY US LLP						
P.O. Box 64807						
Chicago, IL 60664-0807 R. Blake Johnston						
(312) 368-4000						
41,097 REGISTRATION NUMBER						

10/532886 CT/PTO 27 APR 2005

CERTIFICATE OF Applicant(s): Keith Tho	Docket No. P7151					
Serial No.	Filing Date HEREWITH	Examiner Group Art Unit				
Invention: HEAT EXC	HANGER AND/OR CHEMICAL	REACTOR				
	e following correspondence:	on				
	(Identify type (of correspondence)				
is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on April 27, 2005 (Date) Stephanie Warner-Wallace (Signature of Person Mailing Correspondence) EV630251953US ("Express Mail" Mailing Label Number)						
	Note: Each paper must ha	ve its own certificate of mailing.				